



HYDRO-SET

NON-CHLORIDE WATER REDUCING & ACCELERATING INTEGRAL ADMIXTURE FOR CONCRETE AND MORTAR

1. PRODUCT NAME

FLOK HYDRO-SET

2. MANUFACTURER

The Chargar Corporation
299 Welton Street
Hamden, Ct 06511
(203) 562-9948

3. PRODUCT DESCRIPTION

BASIC USES: Florok Hydro-Set is a non-chloride concentrated liquid solution to be added to concrete or mortar.

It contains no calcium chloride or added chloride ions.

Hydro-Set improves mixing, pouring, placing, speed in setting and final strength of all types of concrete and mortar.

When added to concrete and mortar it reduces original water requirements by 5% to 7% while still improving workability.

Hydro-Set is specifically designed to be used in cold weather. It decreases finishing times, stripping strengths and helps concrete to attain high early strengths.

ADVANTAGES

- * Reduces initial set by 1 to 3 hrs., depending on concrete temperatures.
- * Reduces original water requirements while still improving workability and slump.
- * Can be used in all structural concrete, concrete block, plain concrete, mortar, concrete pipe, other precast members and post tensioned concrete.
- * Can be used in floors over pre-stressed concrete or galvanized decking, floors containing embedded metal, reinforced concrete in moist environments or exposed to deicing salts.
- * Increases strength of concrete at all ages.
- * Permits forms to be removed sooner for greatest speed and economy.
- * Makes concrete more waterproof.

ADVANTAGES (continued)

- * Allows work to proceed in cold weather.
- * Cures concrete faster and more thoroughly.
- * Increases density of concrete and mortar.
- * Will not cause efflorescence.

LIMITATIONS:

- * Follow cold weather recommendations of American Concrete Institute ACI and Portland Cement Association.
- * May be used with most cement/lime mortar mixes. Due to many types available, make test sample to determine product suitability & quantity needed.

PACKAGING:

Gallons, 5 gallon drums, 55 gallon drums.

4. DIRECTIONS:

- * Recommended dosages of Hydro-Set range from 2% to 4% by weight of cement. As dosage increases to 4% the protection level and strengths developed increase.

Percent-Hydro-Set s/s (Cement)	Hydro-Set additional Rate (fl. oz./cwt cement)
2%	.85 fl. oz. cwt cement
3%	.128 fl. oz. cwt cement
4%	.170 fl. oz. cement

- * Since Hydro-Set is highly concentrated, user must reduce water in their mix.
- * Temperature must be 25 degrees and rising.

TEST RESULTS: (New Haven Testing Laboratories)

A standard cement, sand, stone mix was chosen. 4% solution of Hydro-Set was added to the mixing water.

1. This sample mix was kept at a constant temperature of 25-30 degrees for 7 days. The average compressive strength was 3450 P.S.I.
2. This sample mix was kept at a constant temperature of 60 degrees for 7 days. The average compressive strength was 4125 P.S.I.

Additional test results available upon request.



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